

GAU 3711
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IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

Applicants : ATSUMI, TAKIGUCHI, IBUKU and ANAI
Serial No. : 09/193,928
Filed : 11/17/98
For : **SHAFT FOR LIGHT-WEIGHT GOLF CLUBS**
Examiner : Unknown
Art Unit : 3711
Reference No.: M2009-9

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Postal Service as first class mail in an envelope addressed to: Hon. Assistant
Commissioner for Patents, Washington, DC 20231 on:

Date : Mar. 1, 1999
By : Margaret L. Goldstein
Signature : M. Goldstein

INFORMATION DISCLOSURE STATEMENT

Hon. Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

Applicant would like to bring to the attention of the Examiner certain
information of which he is aware, as identified more fully in the attached Form
PTO-1449. A copy of the prior art reference is enclosed.

It is believed that this information does not render the claimed invention
unpatentable, but is submitted pursuant to Applicant's duty of candor, and in the
interest of bringing all potentially relevant information to the attention of the
Examiner.

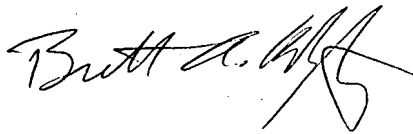
Regarding the cited reference, Applicant would like to comment as follows:

Reference A discloses a golf club shaft which is formed from a composite reinforced fiber material. The shaft is composed of alternating fiber layers containing either straight or angled fibers. Starting from the inside, reinforced layers are formed in sequence as: angled layer, straight layer, angled layer, and straight layer. The outer layer has a thickness of 0.04 - 0.1mm. The torsional strength of the light-weight golfclub shaft is at least 120 N·m degrees and the weight is 30 - 45g. The prepreg which forms the outer layer has a fiber density of 18 - 55 g/m² and a thickness of at least 0.05 mm.

It is respectfully submitted that the cited references do not teach or suggest applicant's invention as claimed.

If any additional fees are necessary in connection with the filing of this Information Disclosure Statement, please debit our Deposit Account No. 13-4550.

Respectfully Submitted,



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